ANNUAL REPORT OF THE CENTRAL METEOROLOGICAL OBSERVATORY OF JAPAN

FOR

THE YEAR 1902.

PART II.

ON

THE BAROMETRIC DEPRESSIONS

IN

THE YEAR 1902.

PUBLISHED BY THE CENTRAL METEOROLOGICAL OBSERVATORY,

TOKIO.

1917.

BAROMETRIC DEPRESSION IN THE YEAR 1902.

JANUARY.

1. *2nd.* — Barometric depression in the Japan sea.
2. *7th.* — Continental cyclone from the neighbourhood of Tomsk.
3. *11th.* — Continental cyclone from the Yangtse-valley.
4. *17th.* — Continental cyclone from the upper Yangtse-valley.
5. *21st.* — Barometric depression from the sea to the south of Formosa.
6. *23rd.* — Local cyclone in Central Japan.
7. *30th.* — Continental cyclone from the upper Yangtse-valley.

FEBRUARY.

1. *1st.* — Barometric depression in the Japan sea.
2. *1st.* — Barometric depression on our Pacific coast.
3. *8th.* — Continental cyclone from the Amur district.
4. *12th.* — Barometric depression from the Yellow sea.
5. *13th.* — Pacific cyclone.
6. *16th.* — Continental cyclone from North China.
7. *18th.* — Continental cyclone from Eastern Siberia.
8. *24th.* — Continental cyclone from Saghalien.
9. *25th.* — Continental cyclone from the Yangtse-valley.
10. *28th.* — Continental cyclone from the upper Yangtse-valley.

MARCH.

1. *1st.* — Secondary cyclone in the Inland sea.
2. *3rd.* — Barometric depression in the Korea straits.
3. *4th.* — Secondary cyclone in Kii peninsula.
4. *4th.* — Local cyclone in Central Japan.
5. *3rd.* — Continental cyclone from Eastern Siberia.
6. *5th.* — Local cyclone in the neighbouring district of Nikko.
7. *6th.* — Continental cyclone from the Amur district.
8. *8th.* — Barometric depression from the Eastern sea.
9. *9th.* — Continental cyclone from the neighbourhood of Tomsk.
10. *12th.* — Continental cyclone from the neighbourhood of Tomsk.

11. *12th.*— Barometric depression from the Yellow sea.
12. *17th.*— Continental cyclone from the neighbourhood of Tomsk.
13. *21st.* — Continental cyclone from the Yangtse-valley.
14. *30th.*— Continental cyclone from the upper Yangtse-valley.

APRIL.

1. *2nd.* — Continental cyclone from North Korea.
2. *2nd.* — Barometric depression from the Eastern sea.
3. *6th.* — Continental cyclone from North China.
4. *8th.* — Continental cyclone from the Yangtse-valley.
5. *10th.*— Continental cyclone from Eastern Siberia.
6. *17th,*— Barometric depression from the Eastern sea.
7. *19th.*— Continental cyclone from North China.
8. *23rd.*—Continental cyclone from the Yangtse-valley.
9. *25th.*— Barometric depression from the Eastern sea.
10. *29th.*— Continental cyclone from the Baikal district.
11. *30th.*— Local cyclone in Central Japan.

MAY.

1. *1st.* — Continental cyclone from the upper Yangtse-valley.
2. *4th.* — Barometric depression from the Eastern sea.
3. *7th.* — Continental cyclone from the neighbourhood of Tomsk.
4. *5th.* — Continental cyclone from theYangtse-valley.
5. *9th.* — Local cyclone in the neighbourhood of Nikko.
6. *11th.*— Barometric depression from the Pacific to the east of the Philippines.
7. *15th.*— Continental cyclone from the Yangtse-valley.
8. *15th.*— Continental cyclone from the Eastern Yangtse-valley.
9. *19th.*— Barometric depression from the Eastern sea.
10. *21st.* — Continental cyclone from Central Siberia.

JUNE.

1. *1st.* — Continental cyclone from North China.
2. *3rd.* — Typhoon from the Pacific to the southeast of Luzon. This typhoon caused a severe rainstorm over Formosa on the morning of the 3rd.
3. *4th.* — Barometric depression from the Formosa channel.
4. *7th.* — Local cyclone in Central Japan.
5. *9th.* — Barometric depression from the upper Yangtse-valley.

6. *14th.* — Continental cyclone from the upper Yangtse-valley. This cyclone caused a heavy rainfall over Western Japan.
7. *16th.* — Barometric depression from the neighbourhood of the Yaeyama islands.
8. *21st.* — Barometric depression from the Eastern sea.
9. *23rd.* — Secondary depression from Northern Kiushiu.
10. *24th.* — Continental cyclone from the neighbourhood of Lake Baikal.
11. *26th.* — Continental depression from South China.

JULY.

1. *1st.* — Typhoon from the Pacific to the east of Luzon. This typhoon caused a heavy rainfall over Southern Japan.
2. *7th.* — Local cyclone in Central Japan.
3. *10th.* — Continental cyclone from Mongolia.
4. *17th.* — Continental cyclone from South China
5. *19th.* — Secondary cyclone in Northeastern Japan.
6. *19th.* — Barometric depression from Northern Kiushiu.
7. *21st.* — Continental cyclone from South China.
8. *26th.* — Typhoon from the Pacific to the southeast of Luzon. This typhoon caused a heavy rainstorm over Southern Formosa. The total amount of rainfall during the visitation of storm was 142mm. at Koshun and 123mm. at Taito.

AUGUST.

1. *1st.* — Typhoon from the Pacific to the east of Luzon.
2. *7th.* — Typhoon from the Pacific to the east of Luzon. This typhoon crossed Western Japan on the 11th, causing a heavy rainstorm there. At Kumamoto, Kiushiu, the barometer fell as low as 720.9mm. * at 3pm on the 10th. At Sharyōtō near Keelung in Northern Formosa the wind-velocity of 63.4m.p.s was observed at 9.20a.m. on the 8th.
3. *7th.* — Barometric depression from the Pacific near the Riukiu islands.
4. *19th.* — Local cyclone in Central Japan.
5. *20th.* — Local cyclone in Central Japan.
6. *21st.* — Barometric depression from the Yellow sea.
7. *30th.* — Typhoon from the Pacific to the east of Luzon. This typhoon

* The barometric readings given in the text are all reduced to sea-level and corrected for the gravity-

caused a heavy rainstorm over Northern Formosa.

SEPTEMBER.

1. *2nd.* — Typhoon from the Pacific to the southeast of the Riukiu islands.
2. *5th.* — Typhoon from the Pacific to the south of the Bonin islands. This typhoon caused a heavy rainstorm over Western Japan. At Miyazaki in Kiushiu, the barometer fell to 730.1mm at 10pm on the 5th.
3. *17th.* — Local cyclone in Central Japan.
4. *18th.* — Local cyclone in Central Japan.
5. *19th.* — Local cyclone in Central Japan.
6. *18th.* — Continental cyclone from Mongolia.
7. *23rd.* — Continental cyclone from Eastern Mongolia.
8. *26th.* — Typhoon from the Pacific to the east of Luzon.
9. *27th.* — Typhoon from the Pacific to the south of the Bonin islands. This typhoon is one of the severest storms that ever visited this country, and caused a great loss of life and property in Eastern Japan. At the Bonin islands the barometer fell to 712.2mm on the 27th, at 7.30 pm

OCTOBER.

1. *6th.* — Typhoon from the Pacific to the south of Shikoku.
2. *14th.* — Continental cyclone from the Yangtse-valley.
3. *16th,* — Typhoon from the Pacific to the southwest of the Bonin islands. This typhoon caused a heavy rainstorm over the islands, which resulted in a great damage in the plantations there.
4. *24th.* — Continental cyclone from Central Siberia.
5. *28th.* — Barometric depression from the Riukiu islands.
6. *29th.* — Continental cyclone from Siberia.

NOVEMBER.

1. *1st.* — Barometric depression from the sea to the south of Formosa.
2. *3rd.* — Barometric depression of the Japan sea.
3. *13th.* — Continental cyclone from Eastern Siberia.
4. *14th.* — Local cyclone in Central Japan.
5. *17th.* — Barometric depression from the Pacific near the Yaeyama island.
6. *21st.* — Continental cyclone from the Yangtse-valley.

7. *29th.*— Barometric depression from the Pacific near the Okinawa islands.
8. *30th.*— Continental cyclone from the neighbourhood of Tomsk.

DECEMBER.

1. *3rd.* — Continental cyclone from North China.
2. *5th.* — Barometric depression from the Eastern sea.
3. *11th.*— Barometric depression from the Pacific near the Riukiu islands.
4. *12th.*— Barometric depression from the sea to the south of Formosa.
5. *13th.*— Secondary depression from the Korea straits.
6. *21st.* — Barometric depression from the Eastern sea.

Note.— The tracks of all the barometric depressions given in the text are exhibited on the charts at the end of this volume. Those of more important typhoons and cyclones are given in thick lines. Each of the small circles in the tracks indicates the position of the storm-centre on the date specified by the figures printed near the circle, and at the hour specified by *a*, *b* and *c*, *a* meaning 6a.m, *b* 2p.m. and *c* 10p.m. Thus *5/a* means "On the 5th, at 6a.m." and *27/b* "On the 27th, at 2p.m."

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TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

January, 1902.

VIII
VII
V

TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

February, 1902.

X
IX
60
28
50
10
13a
60
50
12
V
II

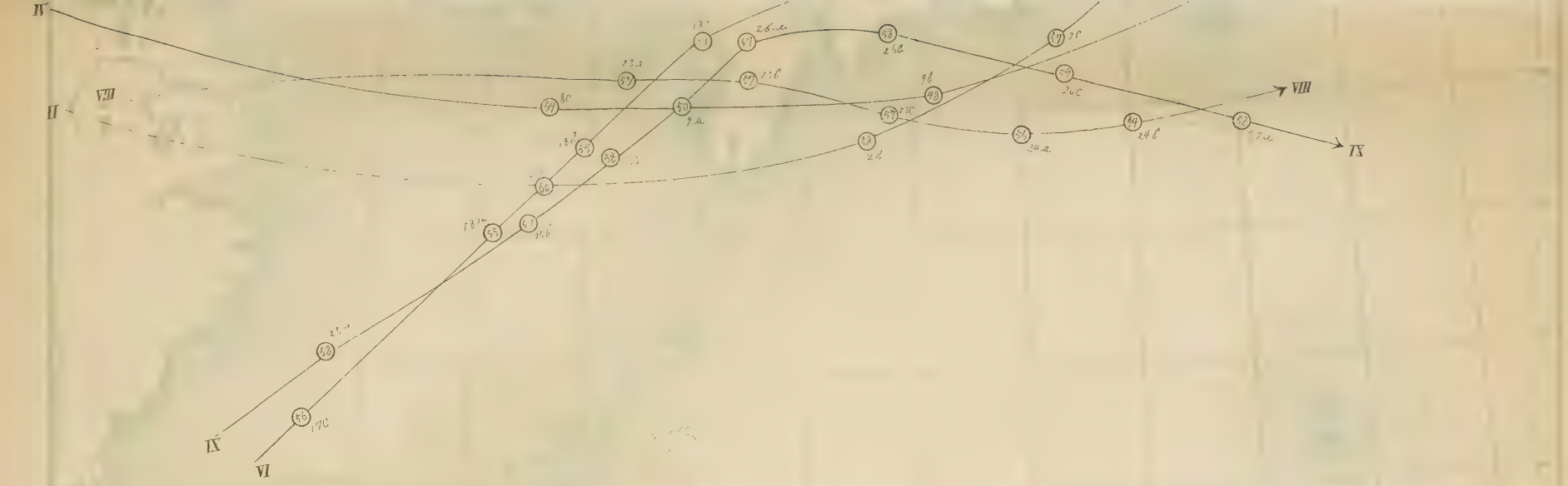
TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

March, 1902.

XIII
II
XIV
VI
VIII
XIII
61
12C
54
54
22a
53
13b
55
9b
60
3a.
62
8C
55
22b
56
22C
58
21a
53
13b

TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

April, 1902.


IV
II
VIII
IX
VI
IX
VIII
IX

PL.V.

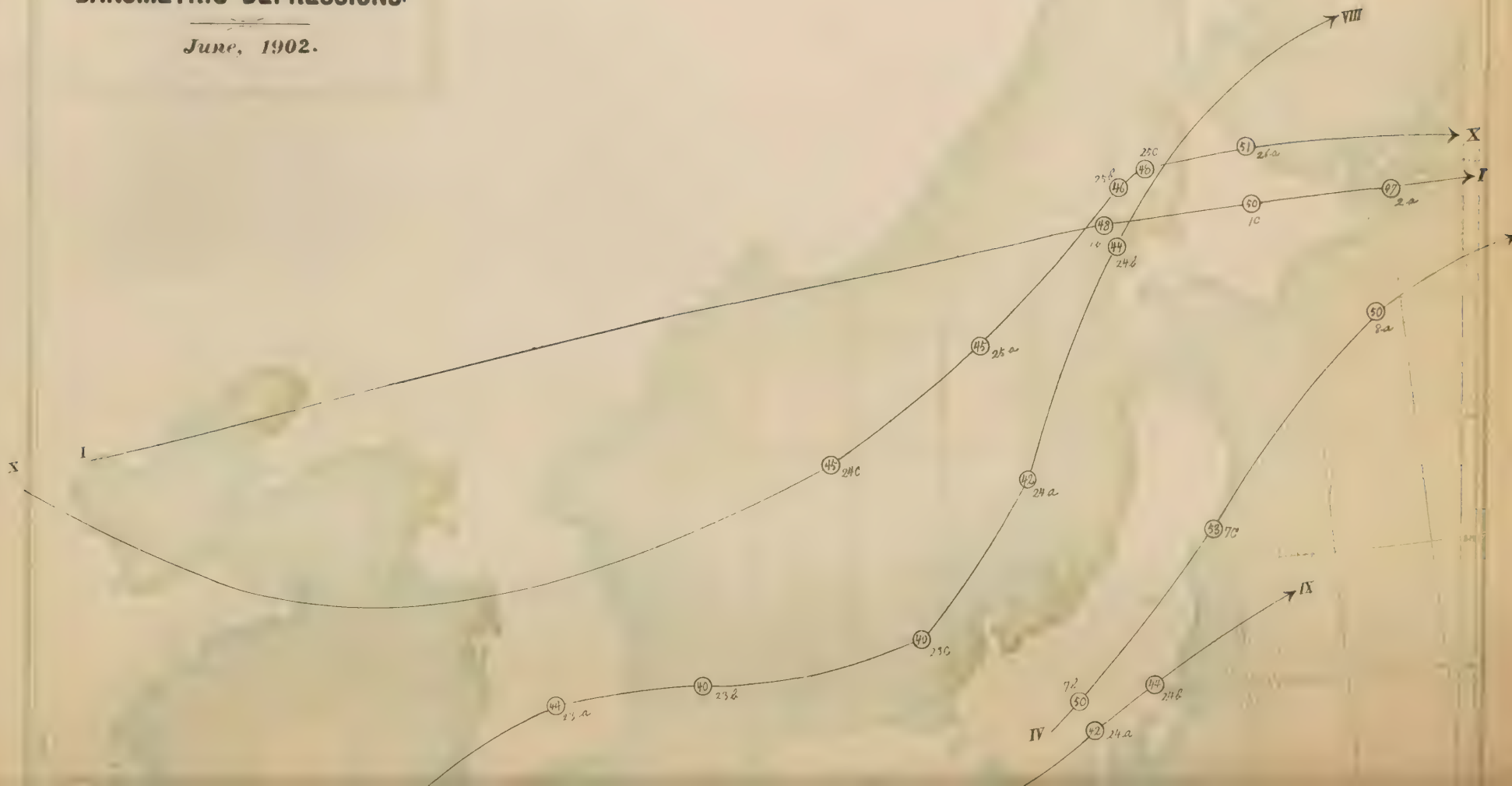
TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

May, 1902.

IV
VII
IX
I
VIII
II
VI
XI
IX

TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

June, 1902.



VI
VII
IX
III
VI
XI
V
XI
VIII
III
VII
II

PL.VII.

TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

July, 1902.

VII
IV
I
VIII

TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

August, 1902.

I
II
III
VII
1c
1b
2a
31c
31b
31a
30b
7c
7b
7a
29c
9a
8c
8b
10a
10b
8a
8b

PL. IX.

TRACKS

OF THE

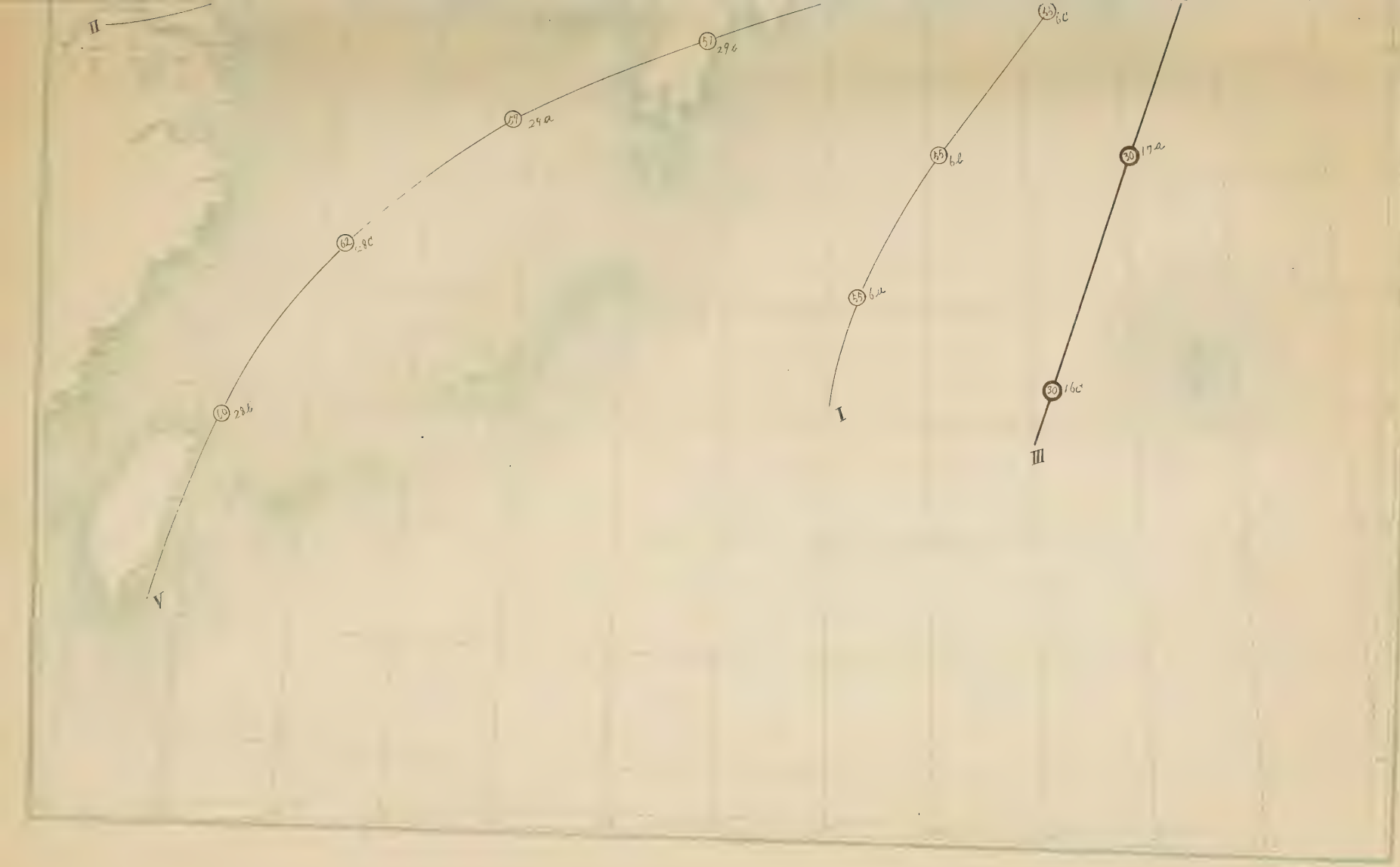
BAROMETRIC DEPRESSIONS.

September, 1902

4c
7c
28 b
4 b
28.a
7b
4 a
1.a
6c
3b
II
IX
I

TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

October, 1902


II
57 29c
59 29a
64 28c
V
69 23b
I
45 6c
55 6b
55 6a
III
30 17a
30 16c

PL. XI.

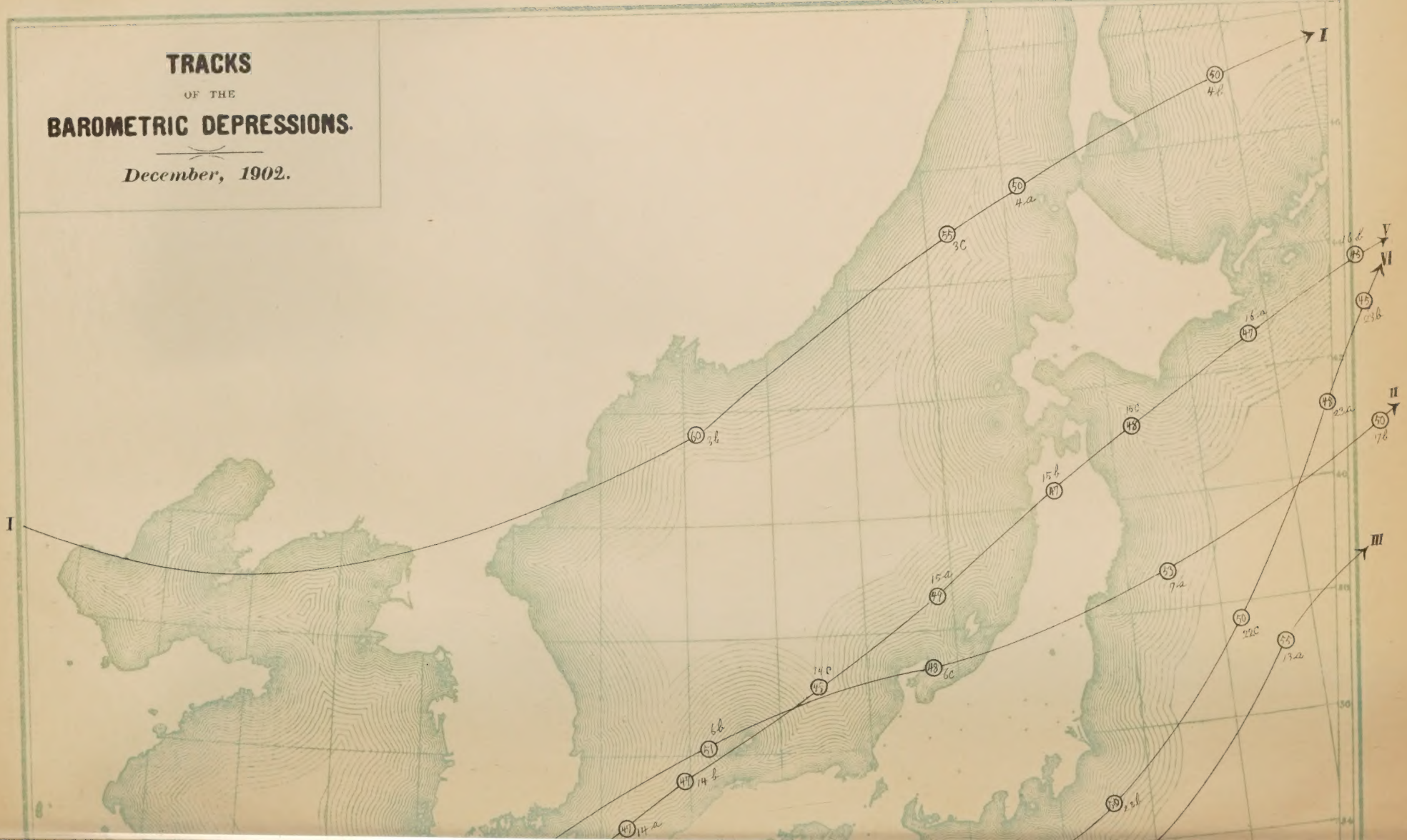
TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

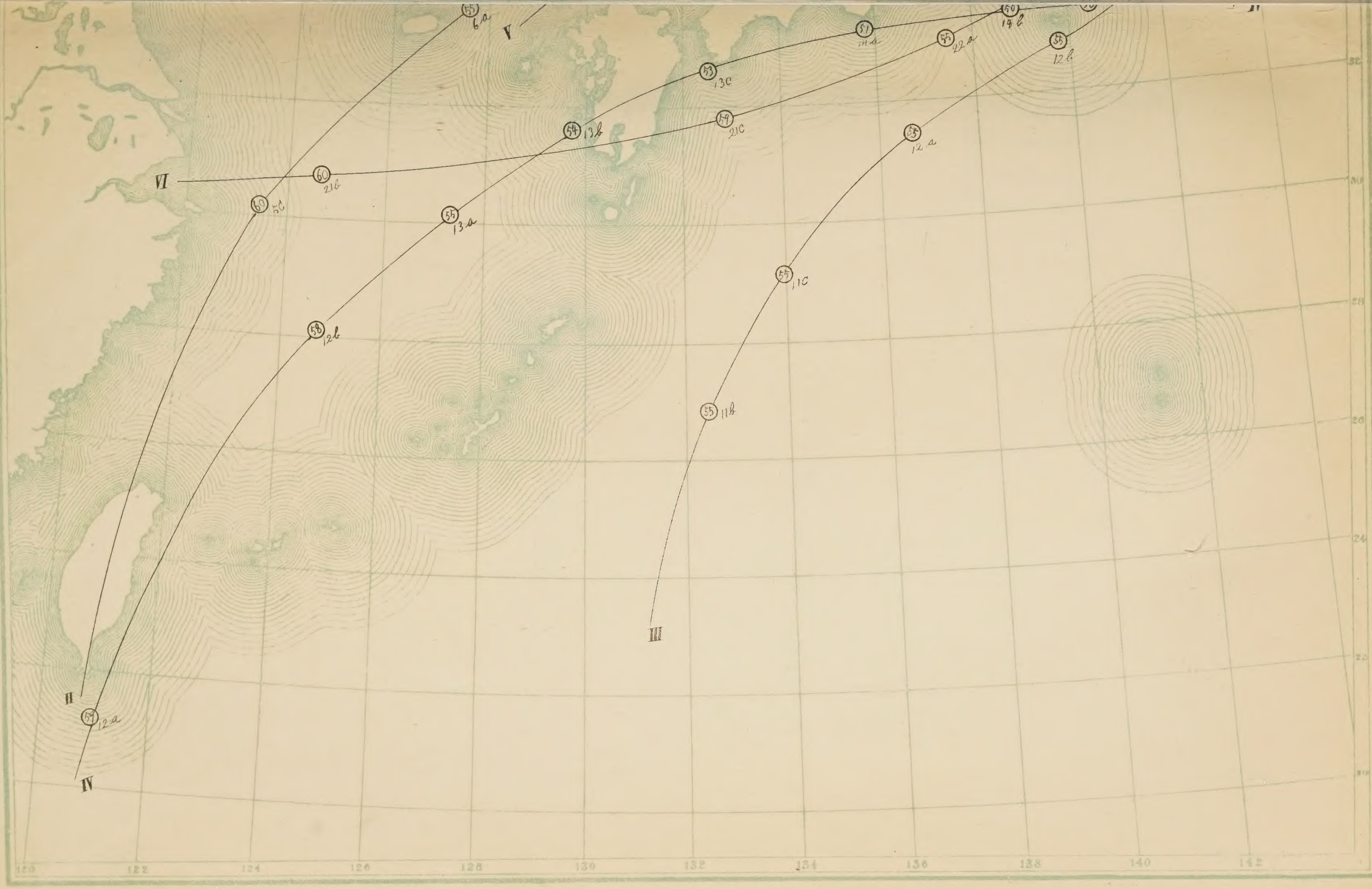
November, 1902.

I
V
VII
V

TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

December, 1902.





VI
V
IV
III
II
55 6a
60 21b
60 5c
55 13a
58 12b
54 13b
53 13c
51 14a
59 21c
55 22a
60 14b
55 12b
55 12a
55 11c
55 11b
57 12a
120
122
124
126
128
130
132
134
136
138
140
142
32
30
28
26
24
22